

Claims

1. A gene which is selected from a polynucleotide represented by SEQ ID NO. 1 or a polynucleotide encoding a γ -butyrobetaine hydroxylase represented by SEQ ID NO. 2.
- 5 2. A recombinant vector comprising the gene of claim 1.
3. The recombinant vector according to claim 2, which has accession number KCCM-10557.
4. A transformant transformed with a recombinant
10 vector comprising the gene of claim 1.
5. The transformant according to claim 4, which is *Escherichia coli*.
6. A γ -butyrobetaine hydroxylase having an amino acid
15 sequence that is selected from an amino acid sequence encoded by a polynucleotide represented by SEQ ID NO. 1 or an amino acid sequence represented by SEQ ID NO. 2.
7. A method of preparing L-carnitine, which comprises hydroxylating γ -butyrobetaine using the γ -butyrobetaine hydroxylase of claim 6.